

** Heavy Hex Nuts conforming to ASTM A 563, Grade C. D or DH may be used.

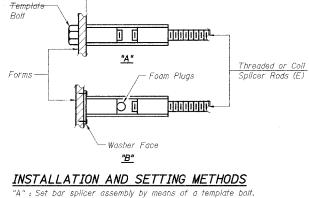
Bridge Deck

Threaded or Coil

Required =

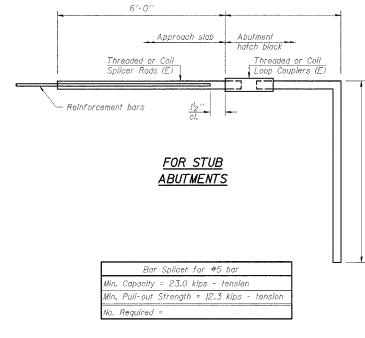
Loop Couplers (E)

Approach Slab



- Stage Construction Line

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.



BAR SPLICER ASSEMBLIES Strength Requirements Bar Size to Splicer Rod or Min. Capacity Min. Pull-Out Strength Dowel Bar Length be Spliced kips - tension kips - tension #4 1'-8' 14.7 7.9 12.3 #5 2'-0" 23.0 17.4 #6 33.1 2'-7" #7 23.8 3'-5" 45.1 #8 4'-6" 58.9 31.3 #9 5'-9' 75.0 39.6 #10 95.0 50.3

117.4

61.8

<u>NOTES</u> Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksl yield strength, threaded or colled full length.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

(Tension in kips)

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$

Where by a Yield strength of lapped reinforcement bars in ksi.

At = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

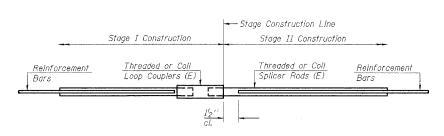
bar splicer assembly satisfies the following requirements: Minimum Capacity = 1.25 x fy x A_t

(Tension in kips)

reinforcement bars.

(1)

2



STANDARD

Bar Size	No. Assemblies Required	Location
#5	24	058-0093
#6	4	058-0093
#5	24	058-0094
#6	4	058-0094
#5	96	058-0095
#6	4	058-0095
#5	96	058-0096
#6	4	058-0096
#5	16	058-0097
#6	4	058~0097

Threaded or Coil Splicer Rods (E) FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension

BSD-1

11-1-06

Reinforcement

Bars

BAR SPLICER ASSEMBLY DETAILS

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										52 SHEE
FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED				F.A.I	SECTION	COUNTY	TOTAL SI
c:\projects\74171d\karenbridge.dgn		DRAWN	REVISED ~	STATE OF ILLINOIS	BAR SPLICER ASSEMBLY DETAILS	72 (58	3.74X66.67)RS-1	MACON	88	
1	PLOT SCALE = 20.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CONTRAC	CT NO. 74
	PLOT DATE = 3/20/2008	DATE -	REVISED -		SCALE:	SHEET NO. 52 OF 52 SHEETS STA. TO STA.	FED. ROAD DIST.	NO. ILLINOIS FED. AID	ID PROJECT	